



# OPERATING INSTRUCTIONS and PARTS LIST

AFTER SERIAL NUMBER

3ML6-60001  
3ML6D-12001  
3ML6DE-01001

## Ariens Emperor TRACTOR AND ATTACHMENTS



### ▲ SAFETY MESSAGE ▲

The product for which you have requested information or replacement parts is not a current product. The replacement models incorporate product designs, safety features, safety instructions or warnings which represent the latest "State Of The Art" developments. For your safety and those around you please contact your nearest Ariens/Gravely Dealer for a demonstration of the current product safety provisions and features.



PRICE \$.25

## SAFETY PRECAUTIONS

Improper use of riding lawn mowers, garden tractors and attachments on the part of the operator can result in injury. To reduce this possibility, give complete and undivided attention to the job at hand.

1. Know the controls and how to stop quickly -- **READ THE OPERATING INSTRUCTIONS.**

2. Do not allow children to operate machine; nor adults to operate it without proper instruction.

3. Clear work area of objects which might be picked up and thrown.

4. Disengage all clutches and shift into neutral before starting engine. Keep hands, feet and clothing away from power driven parts.

5. **Do not** carry passengers. Keep children and pets a safe distance away.

6. Never direct discharge or any material toward bystanders nor allow anyone near machine while in operation.

7. Disengage power to any attachment and stop engine before leaving operator position.

8. Take precautions when leaving machine unattended (to avoid accidental starting, rolling away, accidental dropping of any attachment, etc.).

9. Disengage power to any attachment whenever it is not in use or when traveling from one work area to another.

10. Stay alert for holes and other hidden hazards.

11. Know what is behind you before backing up.

12. Beware of steep slopes; reduce speed on all side slopes and sharp turns to prevent tipping or losing control.

13. Don't stop or start suddenly when going uphill or downhill.

14. Use extra care when pulling loads or using heavy equipment. (Refer to your operating instructions.)

15. Watch out for traffic when near roadways.

16. Handle gasoline with care -- it is highly flammable.

A. Use approved gasoline container.

B. Never add gasoline to a running engine -- fill tank out of doors and wipe up spilled gasoline.

C. Replace gasoline cap securely.

D. Open doors if engine is run in garage -- exhaust gases are dangerous.

17. Keep machine in good operating condition and keep safety devices in place. Use guards as instructed in operating instructions.

18. Disengage power to any attachment and stop engine before making repairs or adjustments.

# SECTION I

## LUBRICATION

### 1. ENGINE

Before starting the engine, fill the crankcase with oil. See the manufacturer's instruction book and the engine nameplate for engine lubrication instructions. The use of MS classification 5W-20 oil is recommended for use in the engine crankcase during cold weather operation. When operating in temperatures of 32 degrees or above, use SAE-30 MS classification oil.

#### CAUTION

When filling or draining the engine, or when lubricating the tractor, exercise care to keep oil or grease from dripping on the drive plate.

### 2. TRACTOR

a. The roller, ball, and needle bearings used on the Ariens EMPEROR tractor are lubricated for life and require no further attention.

b. Occasional greasing of the chains, drive gears on the wheels, and the shafts on which the shift bracket and sprocket are located will result in easier operation. The use of a good grade of grease is recommended.

c. A drop of oil applied to the shift lever pivot, Insta-Hitch threads, mower clutch lever, steering column, and other pivot points will result in smoother operation of these parts.

d. Wheels equipped with zerk fittings must be greased at least once each season. Wheels not equipped with zerk fittings must be removed, cleaned, and repacked once each season.

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## SECTION II

## OPERATING INSTRUCTIONS

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#### CAUTION

Before starting engine, be sure tractor speed control lever (A, Figure 1) is in neutral position and the power driven implement clutch (B, Figure 1) is in the "OUT" position as indicated on the frame above the lever.

### 1. STARTING ENGINE

#### a. Recoil Starting Engine.

(1) The engine throttle lever (C, Figure 1) has four positions: CHOKE, FAST, SLOW, STOP. To start cold engine, place the throttle lever in the CHOKE position and pull starter handle. When engine starts, move throttle lever (C, Figure 1) to SLOW position.

#### NOTE

Choking a warm engine may cause flooding of the carburetor. Always try to start a warm engine without using the choke.

(2) To stop the engine, move the throttle lever to the STOP position.

#### b. Electric Starting Engines.

(1) Plug the AC cord from the starter control box into a 120-volt AC receptacle. Circuit should be fused at no more than 20-amperes. Plug the DC

cord from the starter control box onto the starter on the EMPEROR.

(2) Place engine throttle control in the SLOW position.

(3) Operate the switch on the starter control box.

(4) Allow engine to crank for four or five revolutions and then move the throttle control lever to the CHOKE position. As soon as the engine starts, move the lever to the SLOW position.

### 2. CHANGING SPEEDS

a. A combination automotive type clutch and brake pedal serves to disengage the clutch so that the speed control lever may be positioned in any one of the four forward speeds and reverse.

b. To operate, depress clutch pedal lightly, press down on shift lever button and move lever to desired speed. Release clutch slowly and tractor will move forward. See G, Figure 1.

c. Once the tractor is in motion it is possible,

without using the clutch, to shift to a higher speed range and back down again. However, the clutch must be used when moving shift lever into neutral or reverse.

d. Always remove the foot from the clutch pedal after it is engaged. Riding clutch unnecessarily will wear it out prematurely.

e. Depressing shift lever button and moving lever backward from neutral engages reverse.

f. Forward speeds, at governed engine speed, are 2, 3, 4, and 5 miles per hour; reverse speed is 2 miles per hour.

### 3. BRAKES

Depressing the clutch pedal beyond shifting range engages the brake. The brake has sufficient capacity to hold the tractor on any hill.

### 4. IMPLEMENT CLUTCH

a. A separate clutch is provided for starting and stopping power driven implements. The clutch lever (B, Figure 1) is located in front of the main frame on the left side.

b. To start implement, move clutch lever to right. To stop, move clutch lever to left as indicated on panel above lever.

c. As a safety precaution, a brake shoe on the clutch engages the drive pulley to stop the implement immediately when clutch is disengaged.

### 5. INSTA-HITCH

The EMPEROR Tractor is equipped with a quick hitch for connecting attachments. No tools are needed. Attach implements as follows:

#### a. 26" Rotary Mower.

(1) Turn Insta-Hitch knob (D, Figure 1) counterclockwise until carrier slots (E) and exposed.

(2) Insert floating hitch (F, Figure 1) into carrier slots and turn Insta-Hitch knob clockwise until the rod projecting from floating hitch is enclosed by frame.

(3) Cross sway chains, pass them UNDER the roller support bracket and hook "S" hooks to holes on either side of frame.

(4) To remove implement, simply turn Insta-Hitch knob counterclockwise until carrier slots are exposed and remove floating hitch from frame. Disconnect sway chains from tractor frame.

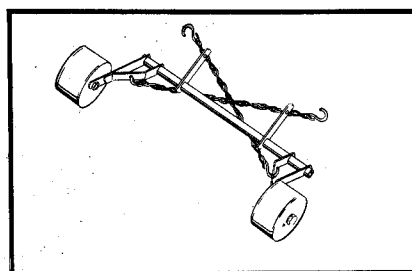
#### b. 30" Rotary Mower.

(1) Turn Insta-Hitch knob (D, Figure 1) counterclockwise until carrier slots are exposed.

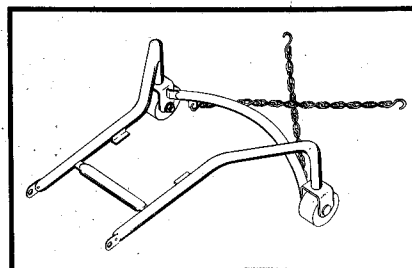
(2) Insert floating hitch in the slots in the carrier and fasten the links to the carrier with washers and hair pin cotters. Turn Insta-Hitch knob clockwise until the rod projecting from the floating hitch is enclosed by frame.

(3) Cross sway chains, pass them UNDER the roller support bracket and hook "S" hooks to holes on either side of frame. (See Figure 1).

(4) To remove implement, simply turn Insta-Hitch knob counterclockwise until carrier slots are exposed and remove floating hitch from frame. Disconnect sway chains from tractor frame.



36-3M



50-3M

SWAY CHAIN ATTACHMENT

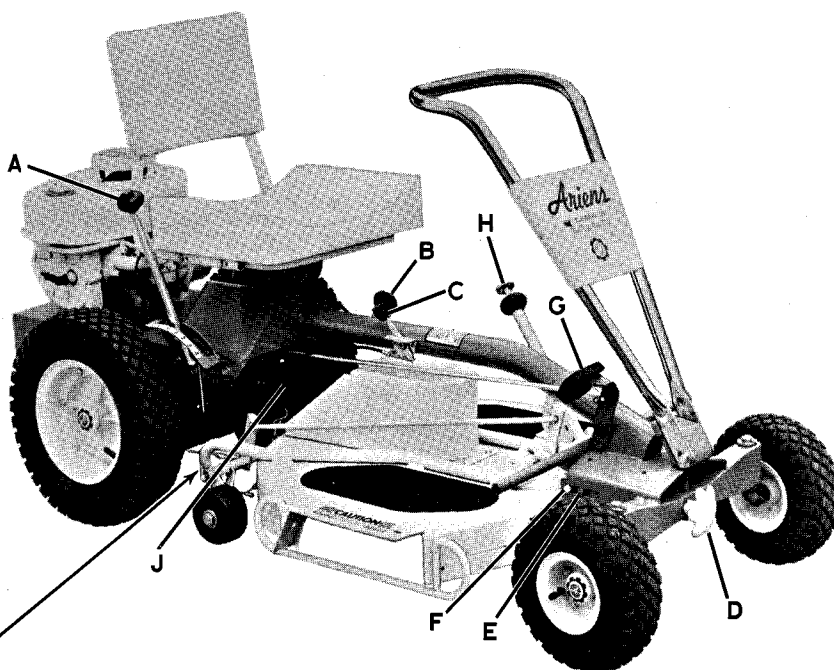


Figure 1

## SECTION III

# SERVICE AND ADJUSTMENTS

### 1. GENERAL

Ariens dealers will provide any service which may be required to keep the EMPEROR operating at peak efficiency. The EMPEROR is equipped with the finest quality engine obtainable. However, should servicing be required, it can be obtained from an Ariens dealer or authorized engine manufacturer's service station. Consult an Ariens dealer for details.

### 2. ENGINE

Refer to engine instruction book and nameplate on engine for maintenance instructions. If repairs or service are needed for engine, see an Ariens dealer or nearest authorized engine service station.

### 3. DRIVE BELT ADJUSTMENT

a. To adjust belt tension, loosen nuts (B, Figure 2) on PTO bracket.

b. Move assembly in slots until the distance between the inside of the belt is approximately 1-1/8 inch with idler pulley engaged. Retighten nuts. (See Figure 2).

### 4. DRIVE BELT REPLACEMENT

To remove drive belt, follow this procedure:

a. Remove mower belt (See Section IV.)

b. Remove five cap screws (C, Figure 2) and take off rubber friction disc.

c. Remove two cap screws (E, Figure 2) and take off rear belt fingers (D, Figure 2).

d. Remove cap screw (G, Figure 2) and take off front belt fingers (F, Figure 2).

e. Loosen nuts (B, Figure 2) on PTO bracket and slide assembly to bottom of slot.

f. Take belt from PTO pulley, train around drive plate (H, Figure 2) and out.

REPLACE WITH SPECIAL BELT FROM ARIENS DEALER. Be sure belt is in both pulley grooves, and between belt fingers on both ends for proper clutching. For belt adjustment, see paragraph 3.

### 5. FRICTION DISC

Replace friction disc by removing five whizlock screws (C, Figure 2). When replacing, be sure disc is located over shoulder properly and flush against face of hub.

### 6. BRAKE ADJUSTMENT

a. Be sure shift lever is in NEUTRAL position.

b. Adjust set collar (J, Figure 2) against spring until brake band just clears differential housing.

c. A slight brake drag does no harm. Test against excessive brake drag by turning both wheels by hand simultaneously.

### 7. SHIFTING

If, after continued use, the machine should shift harder than usual, follow these precautions:

a. Place a few drops of oil on the shift lever and tube.

b. If brake adjustment is too loose, the machine will shift hard. See paragraph 6 for brake adjustment procedure.

c. Grease shaft on which sliding shift bracket slides and hexagon shaft on which sprocket slides.

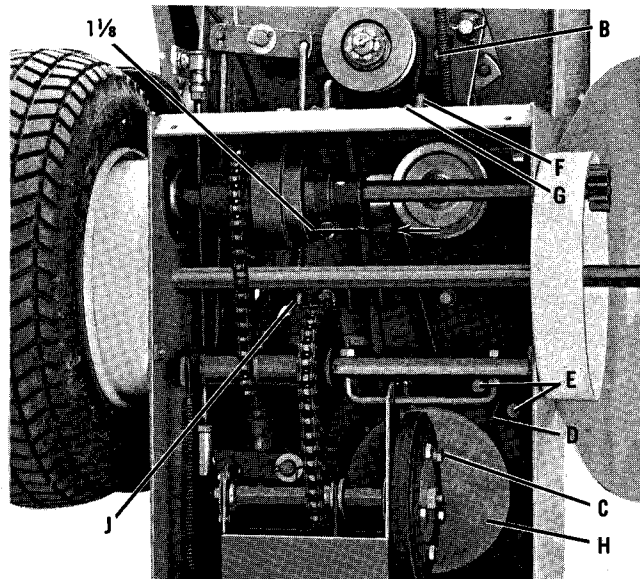


Figure 2

### 8. STORAGE

a. The EMPEROR may be set on end at any time for servicing or storage.

b. For winter storage, always drain all gasoline from gas tank and all oil from engine base.

c. In areas of high humidity or salt air, grease or oil moving or exposed parts to prevent rust.

For more detailed instructions on engine storage, see engine instruction book.

## SECTION IV POWER DRIVEN ATTACHMENTS

### 1. 26" ROTARY MOWER (36-3M)

The complete mower can be attached to the tractor by use of the Insta-Hitch. (See paragraph 5, Section II.) Be sure sway chains (Figure 1) are hooked into frame and drive belt (J, Figure 1) is attached to PTO pulley.

#### a. Operation.

(1) To start mower, move clutch lever (B, Figure 1) to the IN position indicated on panel above lever.

(2) To stop mower, move clutch lever (B, Figure 1) to the OUT position.

#### b. Adjustments.

(1) Height Adjustment. Height of mower blade may be varied from 1-1/2 to 3-1/2-inches by raising or lowering lever (H, Figure 1).

(2) Belt Adjustment. Belt adjustment is obtained by turning knob (D, Figure 1). When height adjustment lever (H, Figure 1) is in mid-notch, tighten belt just enough to prevent slippage of the belt under load. Overtightening belt will cause premature belt and bearing wear.

#### c. Mower Belt Replacement.

(1) Place mower in lowest cutting position.

(2) Remove the two nuts holding belt guard cover to belt guard and remove cover

(3) Turn Insta-Hitch knob (D, Figure 1) counterclockwise until belt is loose enough to be removed. Replace belt. For proper belt adjustment, see Adjustments (paragraph b.).

(4) Replace belt guard cover.

### 2. 30" ROTARY MOWER (50-3M)

The complete mower can be attached to the tractor by use of the Insta-Hitch. (See paragraph 5, Section II.) Be sure sway chains (Figure 1) are hooked into frame and drive belt (J, Figure 1) is attached to PTO pulley.

#### a. Operation.

(1) To start mower, move clutch lever (B, Figure 1) to the IN position indicated on panel above lever.

(2) To stop mower, move clutch lever (B, Figure 1) to the OUT position.

#### b. Adjustments.

(1) Height Adjustment. Height of mower blade may be varied from 1-1/2 to 4-1/2-inches by raising or lowering lever (H, Figure 1).

(2) Belt Adjustment. Belt adjustment is obtained by turning knob (D, Figure 1). When height adjustment lever (H, Figure 1) is in mid-notch, tighten belt just enough to prevent slippage of the belt under load. Overtightening belt will cause premature belt and bearing wear.

#### c. Mower Belt Replacement

(1) Place mower in lowest cutting position.

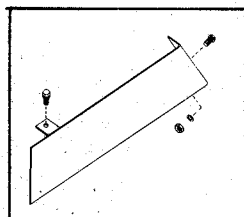
(2) Remove the four cap screws holding belt guard and remove guard.

(3) Turn Insta-Hitch (D, Figure 1) counterclockwise until belt is loose enough to be removed. Replace belt. For proper belt adjustment, see Adjustments (paragraph b.).

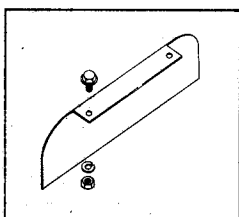
(4) Replace belt guard.

## SECTION V ADDITIONAL ACCESSORIES

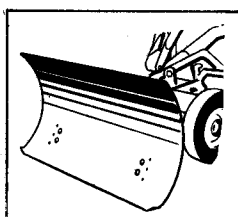
THE FOLLOWING ACCESSORIES ARE AVAILABLE FROM YOUR ARIENS DEALER



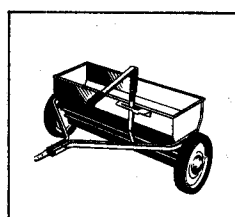
No. 5-12M  
Leaf Mulcher  
26" Mower



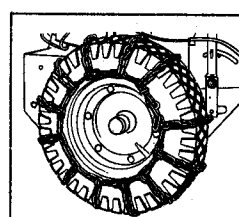
No. 51-3M  
Leaf Mulcher  
30" Mower



No. 37-3M  
Snow-Plow



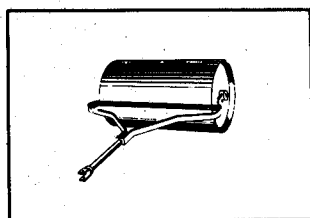
No. 3M-30  
Fertilizer  
Spreader



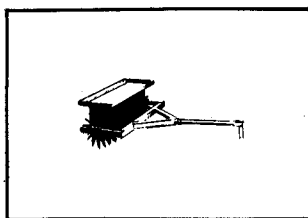
Wheel Chains  
No. 0-3M: 4.00 x 8 Tires  
No. 67-3M: Terra Tires

The impulse starter accessory is available at your nearest Tecumseh dealer. Order by No. 29813 (starter) and No. 29709 (cup).

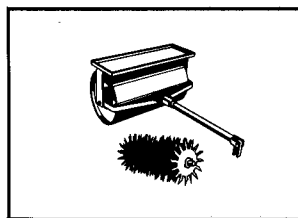
THE FOLLOWING ACCESSORIES ARE AVAILABLE FROM YOUR ARIENS DEALER OR FROM  
THE KENSICO CO., MT. KISCO, NEW YORK, AND THEIR AUTHORIZED DEALERS.



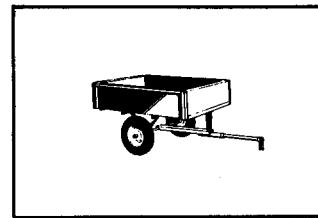
No. 3M-524: Roller



No. 3M-424  
Spiker Aerator



No. 3M-RS24  
Spiker Aerator and Roller



No. 3M-210: Dump Cart

## SECTION VI SNOW BLADE

### MODEL 37-3M

#### 1. ASSEMBLY INSTRUCTIONS

a. All bolts, nuts, and small parts needed to assemble the snow blade are in the parts bag.

b. Fasten runners (3305) to the rear of the blade with  $3/8 \times 1$  carriage bolts, lockwasher, and nut.

c. Attach the two lift links (3307) on each side of ear on lift pin (3314) with a  $3/8 \times 1$  cap screw and self-locking nut. Do not tighten. Links must be free to pivot.

d. Attach foot lever (3311) to axle bracket (3315) with shoulder bolt (4115) and self-locking nut. Lever must be on inside of ear on bracket.

e. Connect forward end of foot lever to lift links with  $3/8 \times 1$  cap screw and self-locking nut. Allow sufficient play for links to pivot.

f. Fasten latch (3312) to foot lever with  $5/16 \times 1$  cap screw, spacer bushing, flat washer, lockwasher,

and nut. Fasten "S" hook (2043) to latch and spring (1027) between hook and hole in foot pedal.

g. The latch, which hooks under the foot rest, is used to hold the blade above the ground during transportation.

h. The drop pin (3306) is used to lock the blade in left, right or in the center position.

#### 2. ATTACHING TO TRACTOR

a. Place axle bracket (3315) in position against front frame of tractor and fasten with 12X42 cap screw, 21X45 washer, 20X6 lockwasher, and 23X21 nut. Place 21X45 washer on inside of frame.

b. The runners are intended for use on gravel drives, etc., and are set to scrape about  $3/8$ -inch above level. Runners can be bent to give more or less clearance to suit situation. Remove runners when it is desirable to scrape clean as on concrete walks and drives.

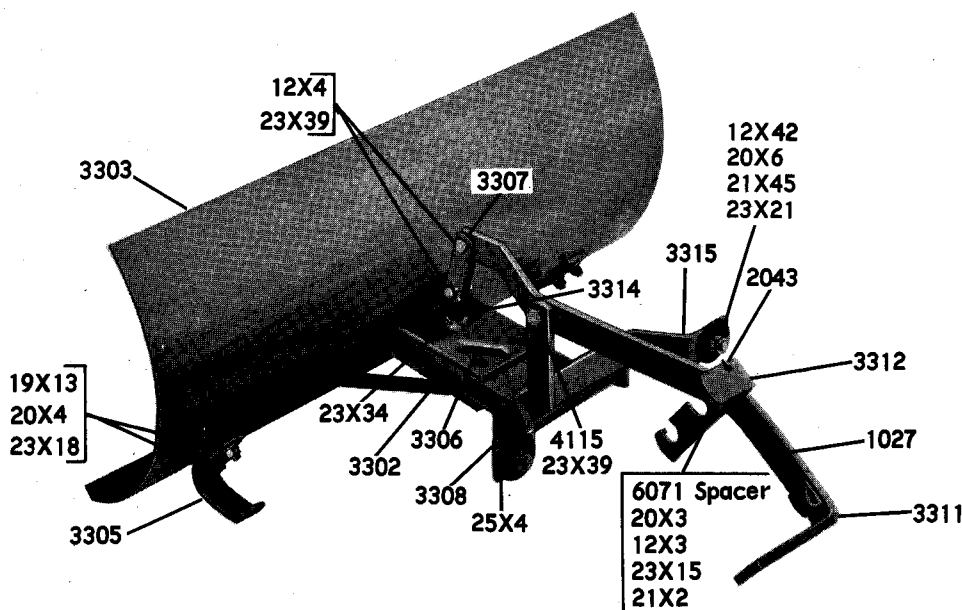
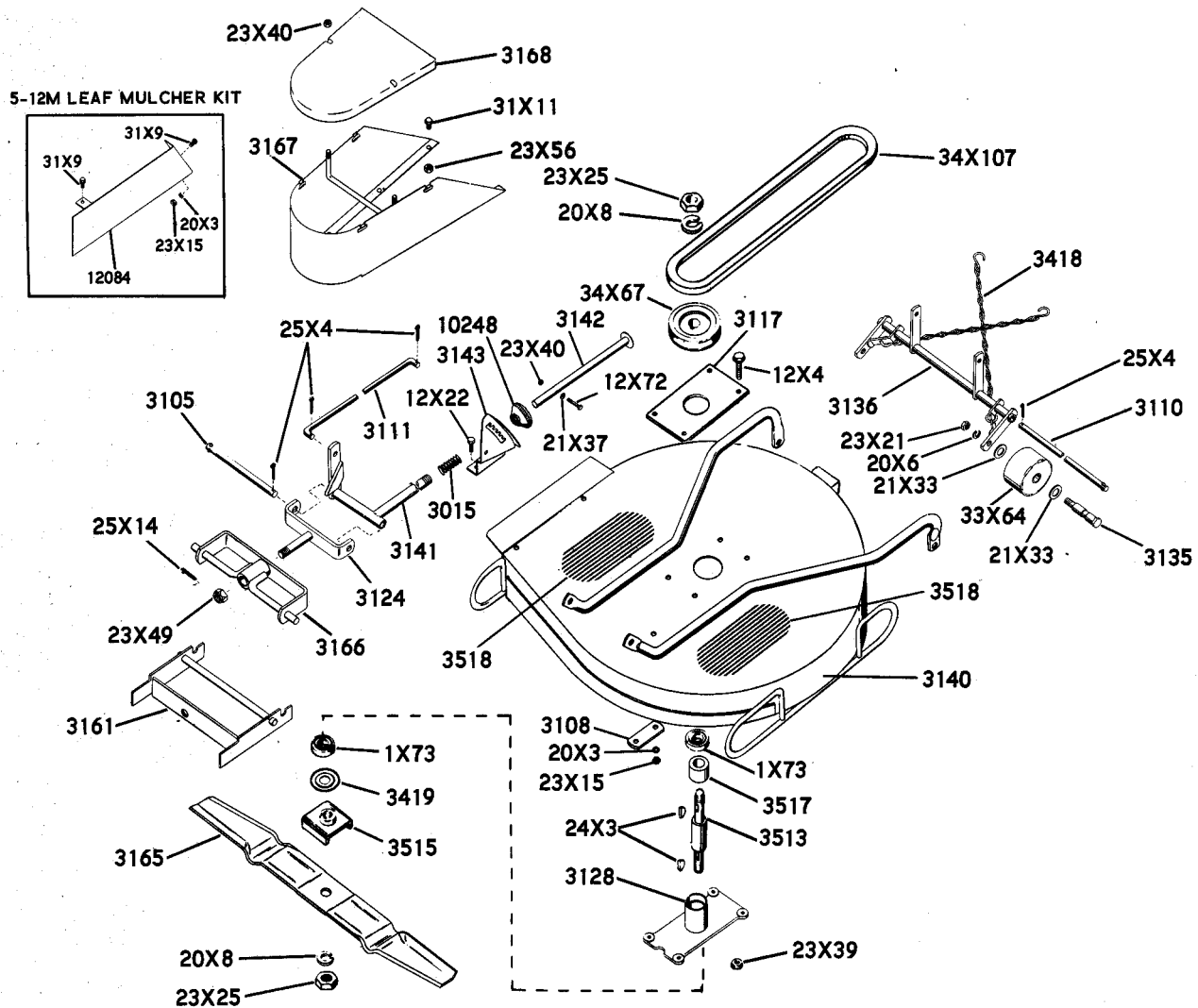
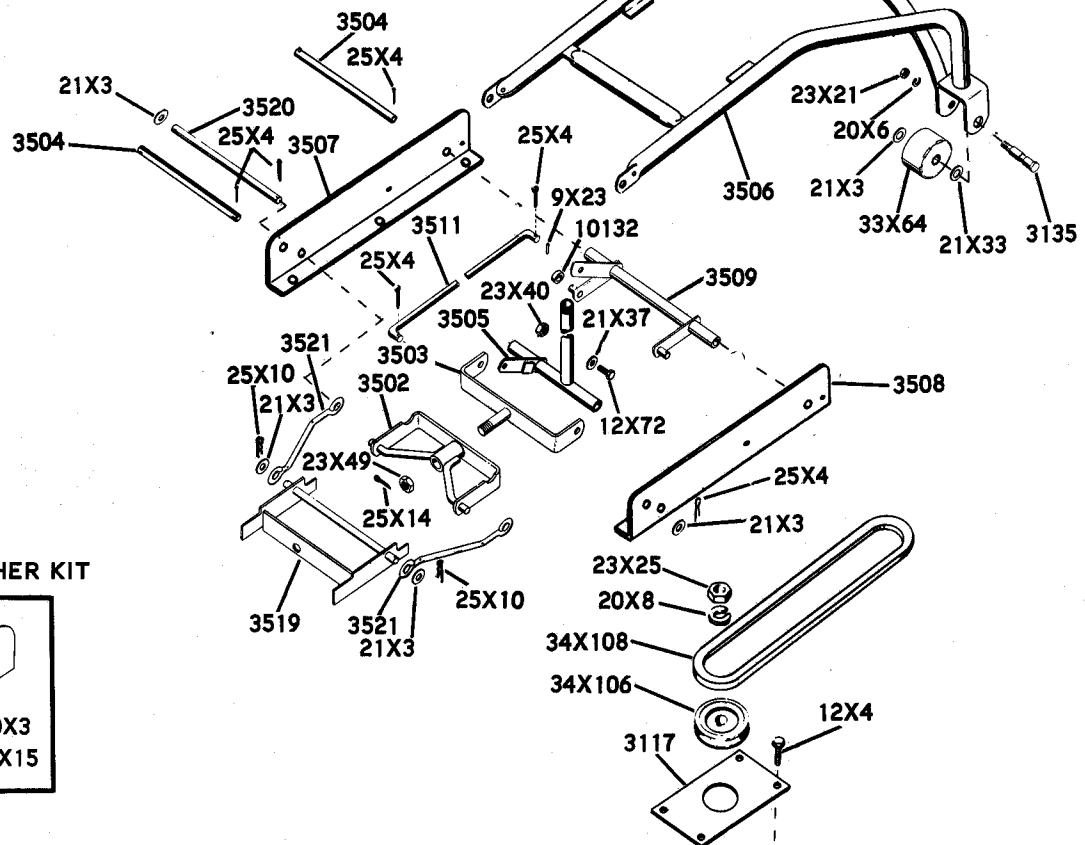
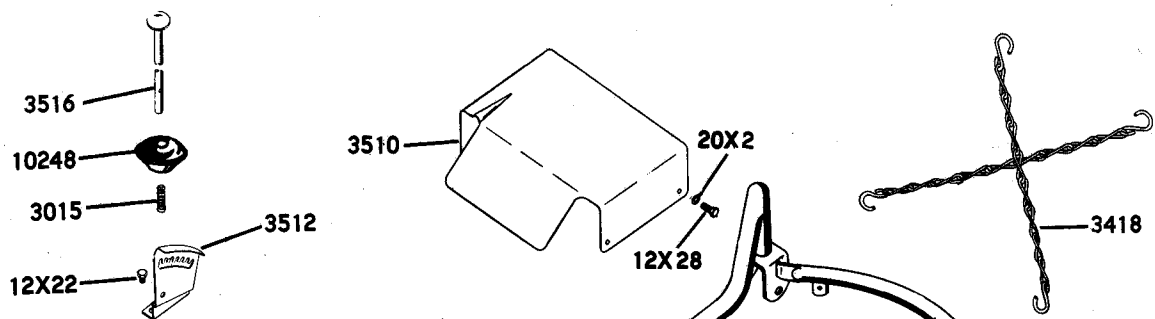


Figure 3

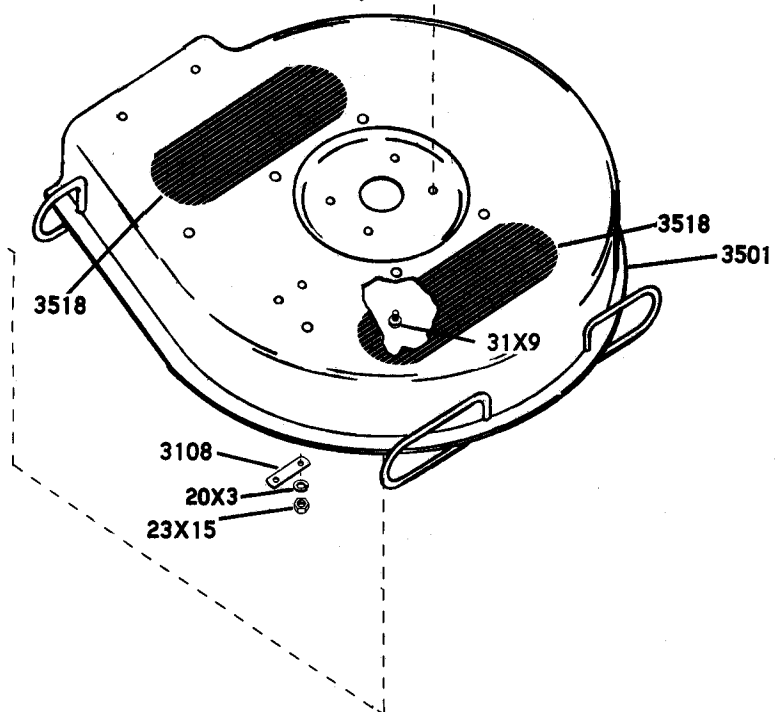
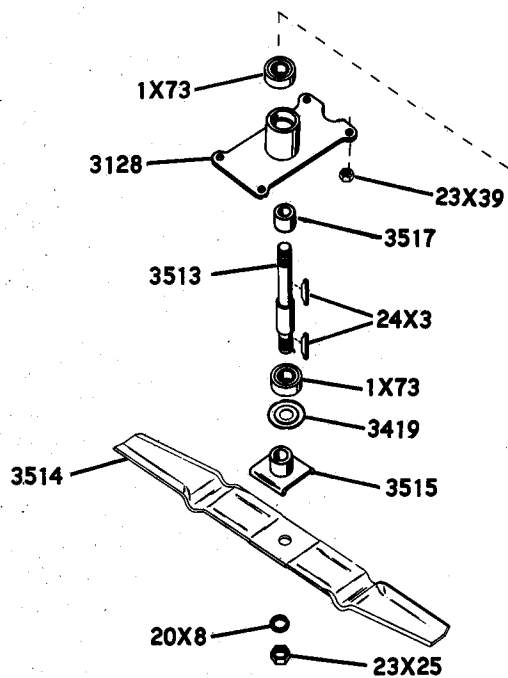
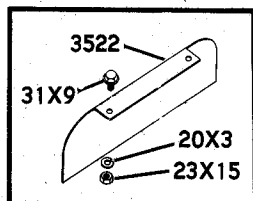
# PARTS LIST FOR 26" ROTARY MOWER



Part Number	Description	No. Req'd.	Part Number	Description	No. Req'd.
3015	Spring	1	1X73	Ball Bearing	2
3105	Adapter Pin	1	12X4	Cap Screw, 3/8-16 x 1 HH	4
3108	Reinforcing Strip	1	12X22	Cap Screw, 5/16-18 x 3/4 HH	2
3110	Trailing Roller Pin	1	12X72	Cap Screw, 1/4-20 x 1-1/4 HH	1
3111	Mower Lift Link	1	20X3	Lockwasher, 5/16 Std.	2
3117	Plate	1	20X6	Lockwasher, 1/2 Std.	2
3124	Hitch Bracket	1	20X8	Lockwasher, 3/4 Std.	2
3128	Spindle Housing	1	21X33	Washer, 1-3/8 x .755 x .125	4
3135	Trailing Roller Bolt	2	21X37	Washer, 1-1/4 x 3/32 x 1/16	1
3136	Trailing Roller Bracket	1	23X15	Nut, 5/16-18 Hex Full	2
3140	Mower Pan	1	23X21	Nut, 1/2-13 UNC Hex Plated	2
3141	Front Floating Adapter	1	23X25	Nut, 3/4-10 Hex Jam	2
3142	Height Control Plunger	1	23X39	Locknut, 3/8-16 Hex Gripco	4
3143	Height Adjustment Quadrant	1	23X40	Locknut, 1/4-20 Gripco	3
3161	Carrier	1	23X49	Nut, 5/8-18 Slotted Jam	1
3165	Mower Blade	1	23X56	Keps Nut 1/4-20 Plated HH	6
3166	Floating Hitch	1	24X3	Key, #9 Woodruff	2
3167	Guard	1	25X4	Cotter Pin, 1/8 x 1	4
3168	Belt Guard Cover	1	25X14	Cotter Pin, 1/8 x 1-1/4	1
3418	Sway Chain	2	31X11	Ribbed Neck Bolt 1/4-20	6
3419	Bearing Slinger	1	33X64	Trailing Roller	2
3513	Mower Spindle	1	34X67	Sheave	1
3515	Blade Retainer	1	34X107	Belt	1
3517	Spacer	1	40X2	Height Quadrant Label (Not Illustrated)	1
3518	Foot Pad	2	40X26	Safety Label (Not Illustrated)	1
10248	Shift Ball	1	40X28	Discharge Caution Label (Not Illustrated)	1



# 51-3M LEAF MULCHER KIT





**PARTS LIST FOR 30" ROTARY MOWER ATTACHMENT**

Part Number	Description	No. Req'd.	Part Number	Description	No. Req'd.
3015	Spring	1	10248	Shift Ball	1
3108	Reinforcing Strip	1	1X73	Bearing	2
3117	Plate	1	9X23	Roll Pin, 3/32 x 3/4	2
3128	Spindle Housing	1	12X4	Cap Screw, 3/8-16 x 1 HH	4
3135	Trailing Roller Bolt	2	12X22	Cap Screw, 5/16-18 x 3/4 HH	2
3418	Sway Chain	2	12X28	Cap Screw, 1/4-20 x 1/2 HH	4
3419	Bearing Slinger	1	12X72	Cap Screw, 1/4-20 x 1-1/4 HH	1
3501	Mower Pan	1	20X2	Lockwasher, 1/4	4
3502	Floating Hitch	1	20X3	Lockwasher, 5/16 Std.	2
3503	Clevis	1	20X6	Lockwasher, 1/2 Std.	2
3504	Adapter Pin	2	20X8	Lockwasher, 3/4 Std.	2
3505	Front Floating Adapter	1	21X3	Wrought Washer, 1/2 SAE	6
3506	Mower Lift Frame	1	21X33	Washer, 1.375 x .755 x .125	2
3507	R. H. Pan Bracket	1	21X37	Washer, 1-1/4 x 9/32 x 1/16	1
3508	L. H. Pan Bracket	1	23X15	Nut, 5/16-18 Hex Full	2
3509	Rear Raising Bracket	1	23X21	Nut, 1/2-13 Hex Full	2
3510	Belt Guard	1	23X25	Nut, 3/4-10 Hex Jam Plated	2
3511	Height Link Rod	1	23X39	Locknut, 3/8-16 Hex Full	4
3512	Height Adjustment Quadrant	1	23X40	Locknut, 1/4-20 Hex Full	1
3513	Mower Spindle	1	23X49	Nut, 5/8-18 Slotted Jam	1
3514	Mower Blade	1	24X3	Key, #9 Woodruff	2
3515	Blade Retainer	1	25X4	Cotter Pin, 1/8 x 1	5
3516	Height Control Plunger	1	25X10	Hair Pin, Cotter	2
3517	Spacer	1	25X14	Cotter Pin, 1/8 x 1-1/4	1
3518	Foot Pad	2	31X9	Whizlock Screw, 5/16-18 x 1/2	6
3519	Carrier	1	33X64	Trailing Roller	2
3520	Adapter Pin	1	34X106	Sheave	1
3521	Link	2	34X108	V-Belt	1
10132	Roller	2	40X2	Height Quadrant Label	1
			40X26	Safety Label	1
			40X28	Discharge Caution Label	1

**WARRANTY**

Ariens Company hereby warrants to the original retail purchaser all new products of its own manufacture to be free from defects in material and workmanship.

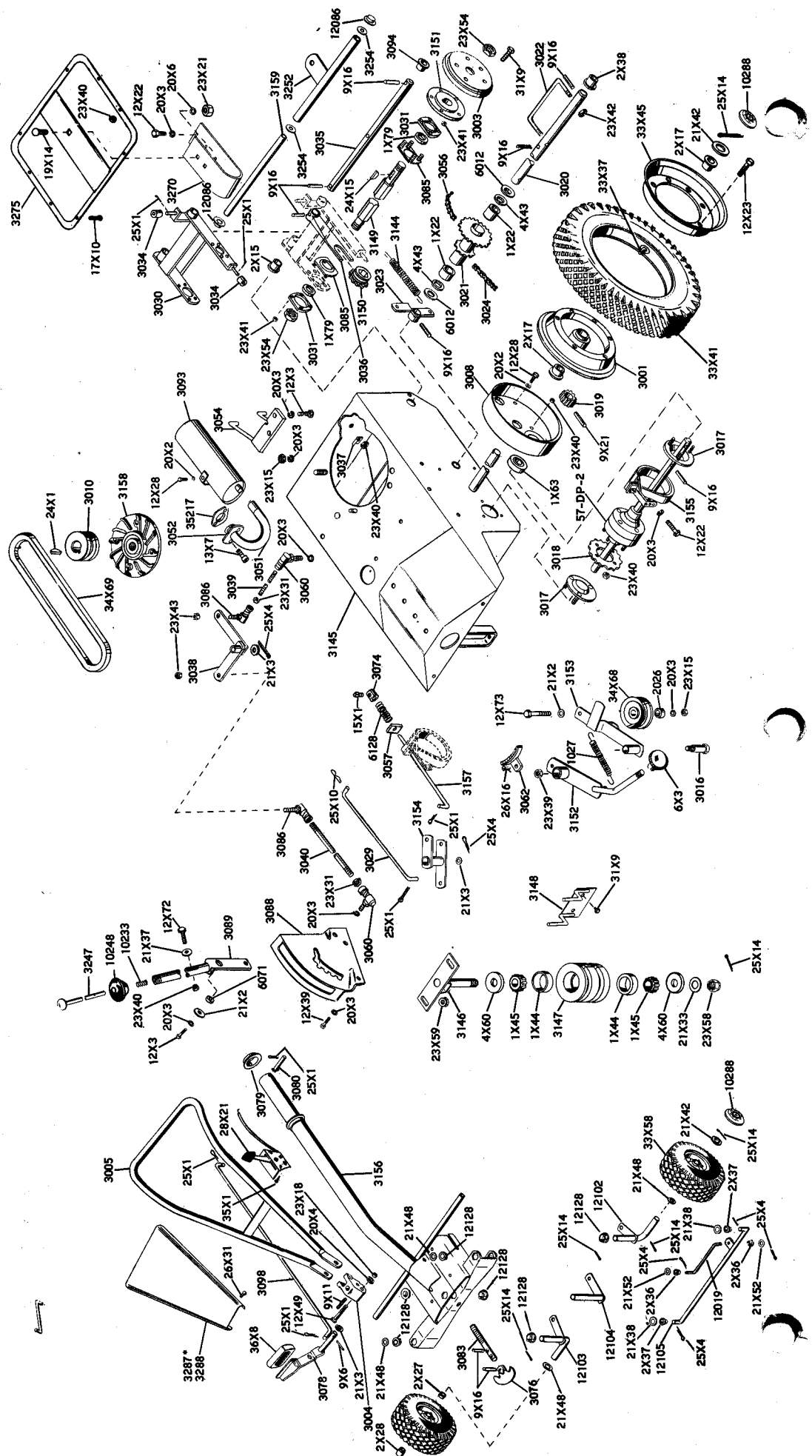
Engine, parts or accessories not manufactured by Ariens Company, even though incorporated into its products, are not covered by this warranty.

The warranty period shall be one year from date of original purchase, except when the product is used for rental purposes, in which case the warranty period shall be for 45 days from date of original purchase.

Any transportation charges incurred on any product claimed defective, which shall include the time and expense of the distributor or dealer for pickup and/or return of the unit, shall be borne by the purchaser.

This warranty shall not apply to any failure resulting from misuse, neglect or accident. Ariens Company shall not be responsible for damage in transit or handling by any common or contract carrier. Under no circumstances, within or without the warranty period, will the company be liable for damages for loss of use, or damages resulting from delay, or any consequential damages.

The company reserves the right to incorporate any changes in design into its products without obligation to make such changes on units previously manufactured.



# PARTS LIST FOR EMPEROR VI DELUXE AND STANDARD TRACTOR

Part No.	Description	No. L60	Req'd. L60D	Part No.	Description	No. L60	Req'd. L60D	Part No.	Description	No. L60	Req'd. L60D
1027	Spring	1	1	3252	Hitch	1	1	2032	Lockwasher, 1/4-110 x .077	5	5
2026	Spacer Bushing	1	1	3254	Wave Washer	(As Required)	2	2033	Lockwasher, 5/16-130 x .097	14	24
3001	Wheel	2	2	3258	Foot Pad	2	2	2034	Lockwasher, 3/8-145 x .115	1	1
3003	Friction Wheel	1	1	3268	Rear Hub Cap (Chrome)	2	2	2036	Lockwasher, 1/2-176 x .151	1	1
3004	Steering Block	1	1	3269	Front Hub Cap (Chrome)	2	2	2122	Wrought Washer, 5/16	2	2
3005	Handlebar	1	1	3270	Seat Spring	1	1	2123	Wrought Washer, 1/2 SAE	3	3
3008	Gear Cover	2	2	3271	Seat	1	1	2133	Washer, 1.375 OD x .755 ID x .125 thick	1	1
3010	Engine Pulley	1	1	3272	Backrest	1	1	2133	Washer, 1-1/4 OD x 9/32 ID x 1/16	1	1
3016	Shoulder Bolt	1	1	3273	Seat	1	1	2133	Washer, .880 OD x .505 ID x 24 gauge	1	1
3017	Bearing Flange	2	2	3274	Backrest	1	1	2134	Washer, 2 OD x 3/4 ID x 1/8	2	2
3018	Sprocket	2	2	* 3275	Seat Frame	1	1	2134	Washer, 1-3/8 OD x .755 ID x 1/16	4	4
3019	Pinion	2	2	3276	Backrest Support	1	1	2135	Washer, 13/16 OD x .755 ID x 24 gauge	2	2
3020	Counter Shaft	1	1	3280	Gas Tank Cap	1	1	2315	Nut, 5/16-18 Hex Am. Nat. Lit.	2	2
3021	Sprocket Cluster	1	1	3281	Gas Tank	1	1	2316	Nut, 3/8-16 Hex Full	1	1
3022	Sliding Arm	1	1	3282	Tank Bracket	1	1	2321	Nut, 1/2-13 Hex Full	1	1
3023	Clutch Lever	1	1	3283	Tank Strap	1	1	2331	Nut, 5/16-24 SAE Hex Full	2	2
3024	Roller Chain	1	1	3284	Tank Cushion	2	2	2339	Locknut, 3/8-16	1	1
3029	Clutch Throwout Rod	1	1	3287	Handlebar Panel	1	1	2340	Nut, 1/4-20	17	19
3031	Friction Drive Bracket	1	1	3288	Handlebar Panel	1	1	2341	Lock Nut, 10-24 Hex Univ. Tor.	8	8
3034	Bearing Flange	2	2	6012	Washer	1	1	2342	Lock Nut, 5/16-18 Zinc Plated	4	4
3035	Roller	2	2	6071	Spacer	1	1	2343	Nut, 1/2-20 Hex Jam	2	2
3036	Shift Shaft	1	1	6128	Brake Spring	1	1	2344	Nut, 3/4-20 Hex Slotted Jam	2	2
3036	Sprocket Fork	1	1	10233	Spring	1	1	2345	Flanged Lock Nut, 3/8-16	1	1
3037	Neutral Stop	1	1	10248	Shift Ball	1	1	2411	Key, #11 Woodruff	1	1
3038	Shift Transfer Lever	1	1	10288	Hub Cap	4	4	2514	Cotter Pin, 1/8 x 1	7	7
3039	Connector Rod	1	1	12086	Steering Link	1	1	2514	Cotter Pin, 3/32 x 3/4	6	6
3040	Shift Rod	1	1	12086	Cap	2	2	2514	Cotter Pin, 1/8 x 1	1	1
3051	Exhaust Pipe	1	1	12102	L. H. Spindle	1	1	2514	Cotter Pin, 1/8 x 1	1	1
3052	Exhaust Flange	1	1	12103	R. H. Spindle	1	1	2514	Cotter Pin, 1/8 x 1	1	1
3054	Rear Belt Guide	1	1	12104	Steering Post	1	1	2616	Rivet, 1/4 x 1/2 Round Head	9	9
3056	Roller Chain	1	1	12105	The Rod	1	1	2631	Pop Rivet, 1/8 Dia. 1/4 Lg.	1	1
3057	Brake Band Washer	1	1	12105	Bushing	6	6	2821	Throttle Control	2	2
3060	Ball Joint	2	2	12128	Muffler Gasket	1	1	3013	Hose Clamp	2	2
3062	PTO Brake Shoe	1	1	35217	Differential	1	1	31X5	Wheel Bolt, 1/2-20	5	11
3074	Set Collar	1	1	37-DP-2	Needle Bearing	2	2	31X9	Whizlock Screw, 5/16-18x1/2	2	2
3076	Mower Adjusting Knob	1	1	1X22	Bearing Cup	2	2	33X37	Tubes	2	2
3078	Foot Pedal	1	1	1X44	Bearing Cone	2	2	33X41	Tire	2	2
3079	Retaining Collar	1	1	1X45	Ball Bearing	2	2	33X45	Disc	2	2
3080	Retaining Pin	1	1	1X63	Bushing	2	2	33X58	Front Wheel	2	2
3083	Quick Hitch Screw	1	1	1X79	Bushing	2	2				
3085	Bearing Flange	2	2	2X15	Bushing	4	4				
3086	Ball Joint	2	2	2X17	Bushing	2	2				
3088	Shift Segment	1	1	2X36	Bushing	2	2				
3089	Shift Lever	1	1	2X37	Bushing	2	2				
3093	Muffler	1	1	2X38	Bushing	2	2				
3094	Frame Bushing	1	1	4X43	Seal	2	2				
3098	Control Rod	1	1	4X60	Seal	2	2				
3099	Wheel Hub	1	1	6X3	Shift Ball	1	1				
3144	Spring	1	1	9X6	Roll Pin, 1/4 x 1	1	1				
3145	Main Frame	1	1	9X11	Roll Pin, 1/4 x 2	1	1				
3146	PTO Bracket	1	1	9X16	Roll Pin, 3/16 x 1	1	1				
3147	Shaft	1	1	11X42	Fuel Shut-off Valve	1	1				
3148	Belt Guide	1	1	12X1	Cap Screw, 1/4-20 x 3/4 HH	10	10				
3149	Sliding Drive Shaft	1	1	12X1	Cap Screw, 5/16-18 x 1 HH	2	2				
3150	Drive Sprocket	1	1	12X3	Cap Screw, 5/16-18 x 3/4 HH	3	3				
3151	Friction Disc Hub	1	1	12X22	Cap Screw, 5/16-18 x 3/4 HH	4	4				
3152	Control Lever	1	1	12X23	Cap Screw, 3/8-16 x 3/4 HH	12	14				
3153	Idle Arm	1	1	12X28	Cap Screw, 1/4-20 x 1/2 HH	5	5				
3154	Bell Crank	1	1	12X39	Cap Screw, 5/16-18 x 1/2 HH	2	2				
3155	Brake Band	1	1	12X44	Cap Screw, 1/4-20 x 3/4 HH	4	4				
3156	Front Frame	1	1	12X49	Cap Screw, 3/8-16 x 3 HH	1	1				
3157	Brake Rod	1	1	12X72	Cap Screw, 1/4-20 x 1/4 HH	1	1				
3158	Drive Plate	1	1	12X73	Cap Screw, 5/16-18 x 1-3/4 HH	1	1				
3159	Hitch Shaft	1	1	13X7	Cap Screw, 5/16-18 x 3/4 Socket Head	2	2				
3163	R. H. Front Fender	1	1	15X1	Set Screw, 1/4-20 x 1/2 Square Head	1	1				
3164	L. H. Front Fender	1	1	17X10	Machine Screw, 10-24 x 1-1/4	7	7				
3247	Shift Release Handle	1	1	19X14	Carriage Bolt, 1/2-13 x 1-1/4	1	1				

\* Plated for Deluxe Model

# Ariens

## OUTDOOR POWER EQUIPMENT



ARIENS JET series rotary tillers. Choice of 3 h.p., or 4 or 5 h.p. with tine reverse drive.



ARIENS EMPEROR riding mowers with Flex-N-Float rotary mower. Choice of 4 h.p. or 6 h.p. models.



ARIENS ROCKET VI 6 h.p. rotary tiller. Cast iron Tecumseh engine. 2 forward speeds, 2 reverse.



ARIENS SNO-THRO. 2-stage, self-propelled 4, 5 or 6 h.p. models with 240 degree revolving Sno-Chute.



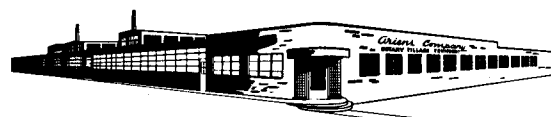
ARIENS FAIRWAY IV riding mower with 26-inch rotary mower. Choice of standard or deluxe models.



ARIENS LAWN VACUUM. Self-propelled 6 h.p. unit with 30" nose cone, 9 cu. ft. refuse bag.

### ARIENS COMPANY

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